

Inspire the Next Generation of Earth Explorers

NASA's Plan for Earth Science Education
2004 - 2008

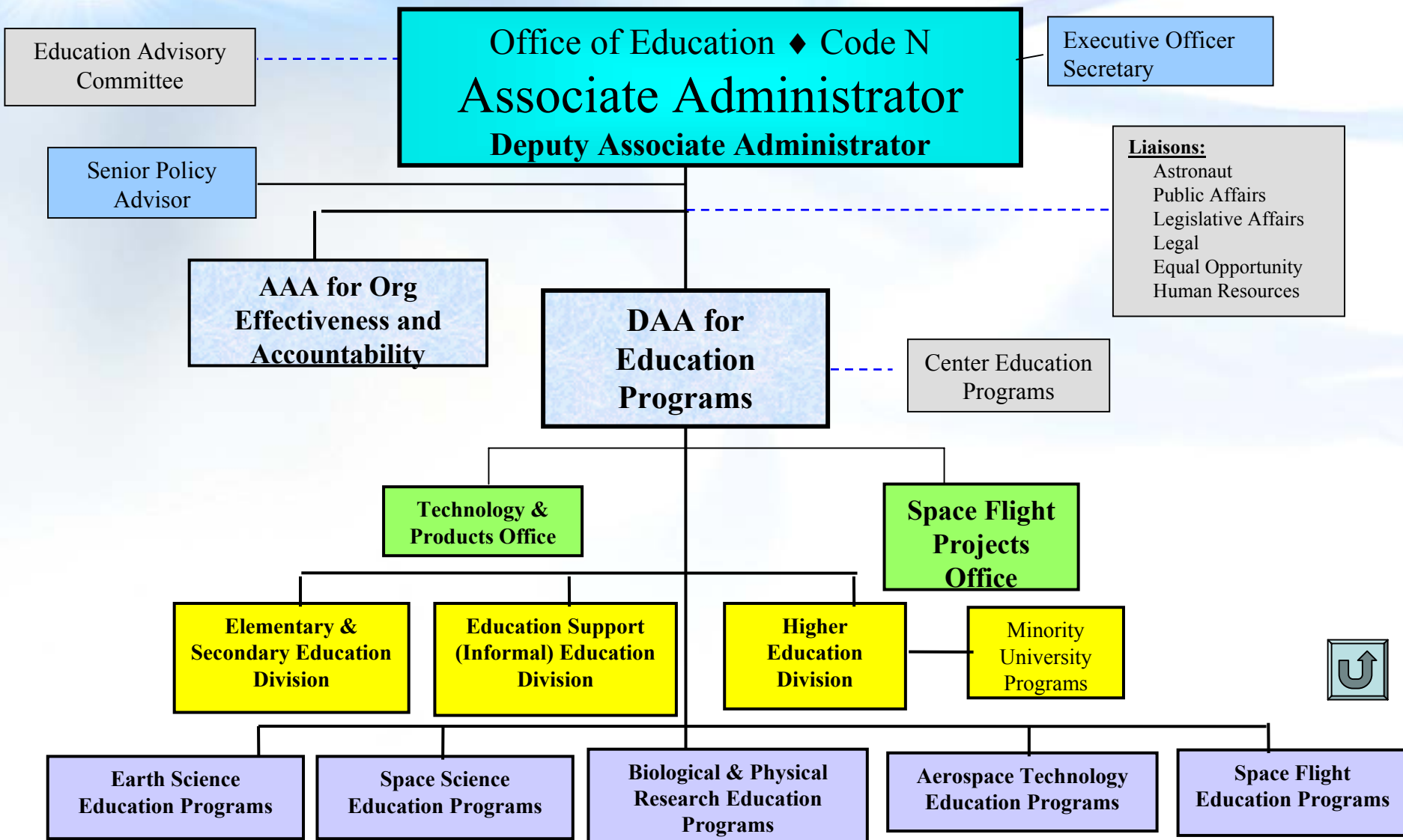


Ocean Color Research Team Meeting
Washington, DC
April 16, 2004





Enterprise Organization





National Aeronautics and
Space Administration

Education Enterprise Strategy



Pathfinder Initiatives

Educator Astronaut

Explorer Schools

Explorer Institutes

**Science and Technology Scholarship
Program**





Technology & Products

LEARNERS

Leading Educators to Applications, Research & NASA-related Educational Resources in Science



Earth System Science



Sun- Earth
Connection

Climate Variability
and Change

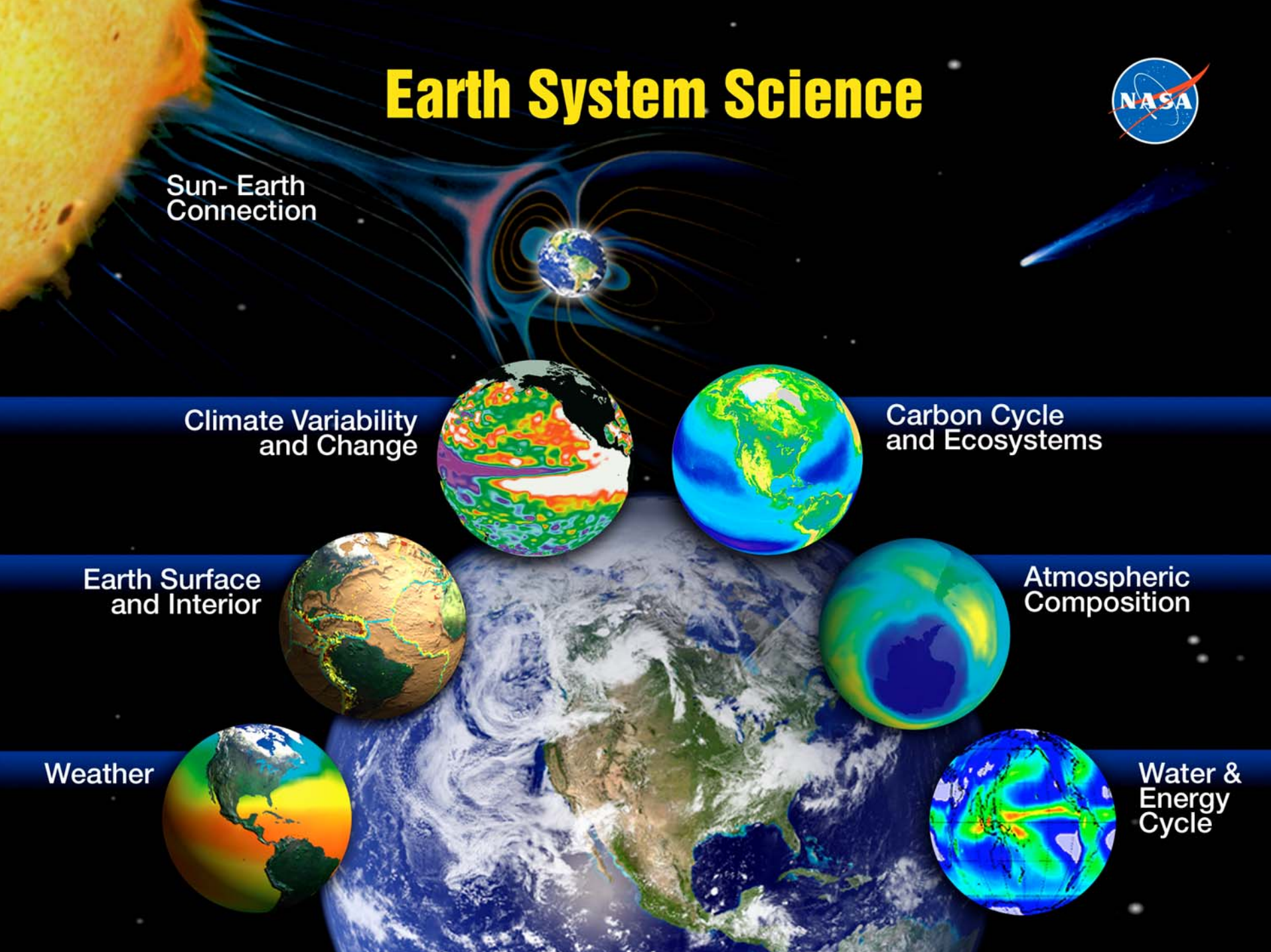
Carbon Cycle
and Ecosystems

Earth Surface
and Interior

Atmospheric
Composition

Weather

Water &
Energy
Cycle





Earth Science Education Team

Dr. Ming Ying Wei

Dr. Diane Schweizer

Dr. Paula Coble





**National Aeronautics and
Space Administration**

Earth Science Enterprise Education Plan



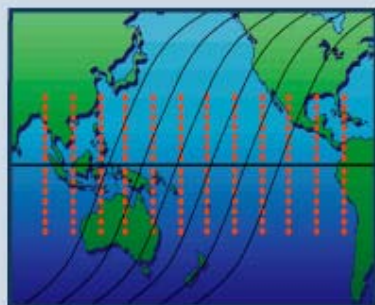
Observations to Knowledge

Download Speed

Petabytes 10^{15}

Multi-platform, multiparameter, high spatial and temporal resolution, remote & in-situ sensing

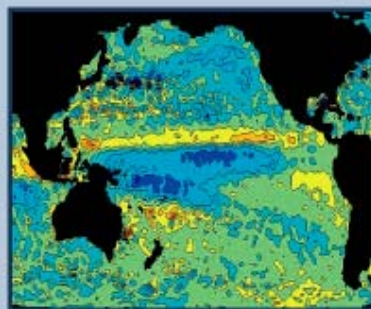
Advanced Sensors



Terabytes 10^{12}

Calibration, Transformation To Characterized Geo-physical Parameters

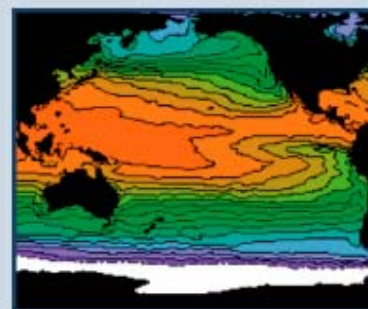
Data Processing & Analysis



Gigabytes 10^9

Interaction Between Modeling/Forecasting and Observation Systems

Information Synthesis



Megabytes 10^6

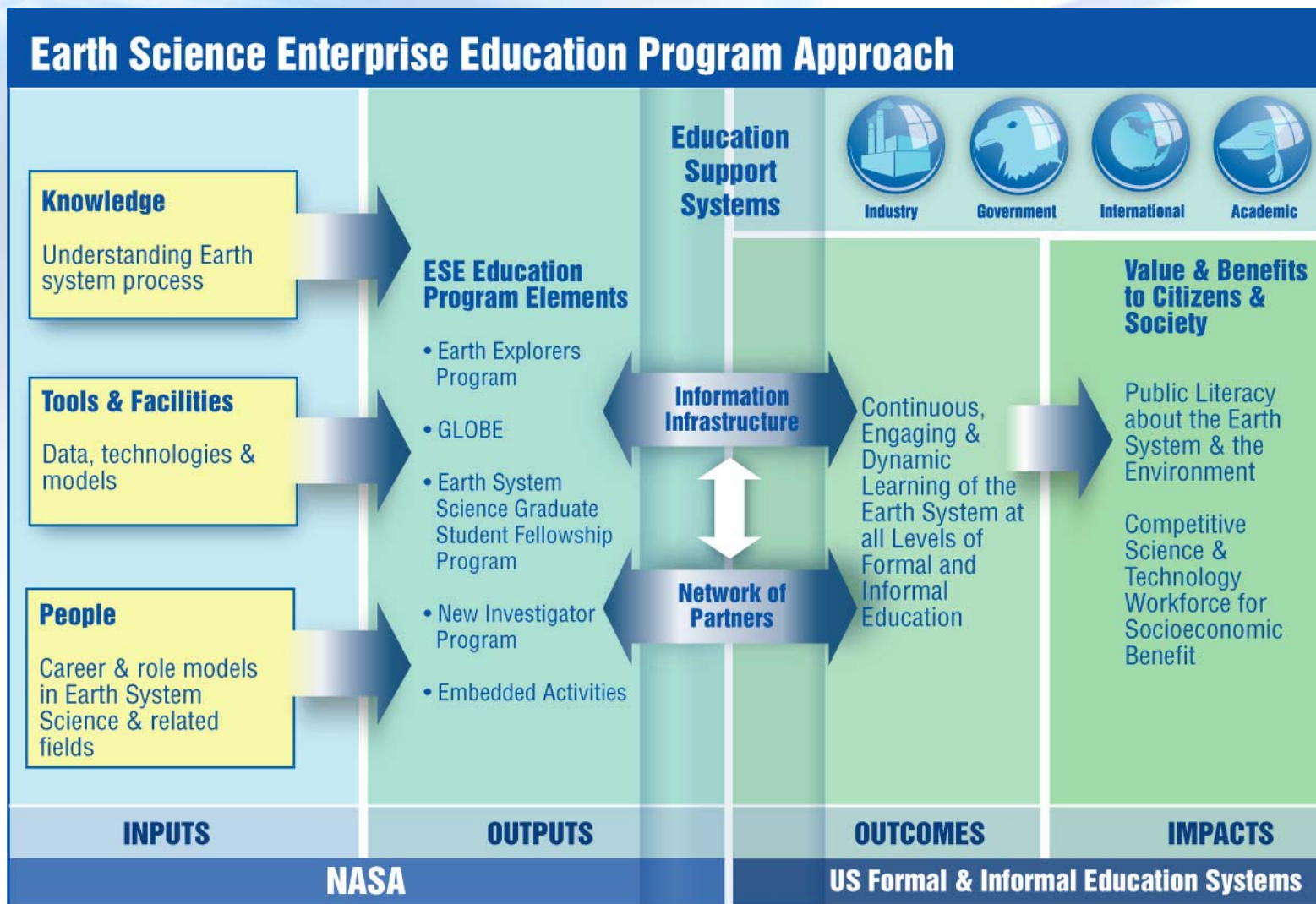
Interactive Dissemination and Predictions

Access to Knowledge





Education Support Systems





Earth System Science Education for the 21st Century (ESSE 21)

Small 2-year grants to engage faculty and scientists in the development of Earth System Science courses, curricula and degree programs

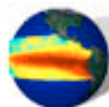


Call For Participation

<http://esse21.usra.edu/>

Proposals due April 1, 2004





DATA & IMAGES



FEATURES



NEWS



REFERENCE

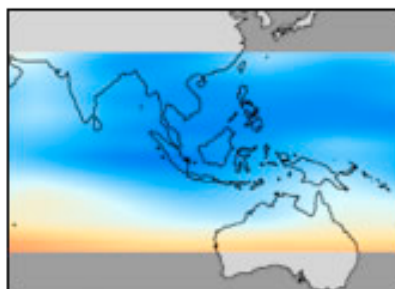


MISSIONS



EXPERIMENTS

TODAY'S IMAGE



Relative Humidity in the Upper Troposphere -

[more images](#)

BREAKING NEWS

Satellite Finds Warming "Relative" to Humidity *(March 19)*

ANASA-funded study found some climate models might be overestimating the amount of water vapor entering the atmosphere as the Earth warms. [more](#)

New Radar System May Help Airplanes Avoid In-flight Icing *(March 18)*

Scientists at the National Center for Atmospheric Research (NCAR) in Boulder, Colorado, are testing a new system this month that may pinpoint water droplets in clouds that cause icing, potentially enabling pilots to avoid dangerous areas. [more](#)

CURRENT STORIES



VISIBLE EARTH


a new collection of earth imagery



the **BLUE MARBLE**



Digital Library for Earth System Education




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Funded by the National Science Foundation

 **What's new at DLESE**

- DLESE 2004 Annual Meeting [Call for Interest](#) - deadline to submit is March 19, 2004


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☐ Email discussions
☐ Everything else



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Resource Type ▶
Collections ▶
Standards ▶
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☐ Coop Pgm Op Met Edu/Training (COMET)
☐ Cutting Edge
☐ Digital Water Ed Library (DWEL)
☐ Discover Our Earth
☐ DLESE Community Collection (DCC)
☐ Evaluation Toolkit
☐ Earth Exploration Toolbook (EET)
☐ Journal Earth Sys Sci Ed (JESSE)
☒ NASA ESE Reviewed Collection
☐ Starting Point

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Interest
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skills, and
y for Life: The

- Mission Geography
National Geography Standards with NASA
missions, research, and science. The project
uses existing NASA data and images to engage students in active, hands-on inquiry,
modeling the scientific method and developing students' understandings of
environment-society relations and Earth science. Grade level-specific modules are
available to download on a variety of topics including volcanoes, remote sensing,
water resources, and human interactions with the Earth.
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www.dlese.org



ESE Education Opportunities

- ❑ ESE Graduate Fellowship Program
- ❑ New Investigator Program
- ❑ Earth Explorers Program Solicitation
 - Release June 2004
 - \$2M total funding





NASA Earth Science Education



Paula Coble
Program Scientist
for Earth Science Education
(202) 358-1457
pcoble@hq.nasa.gov

